

Serial No.: 09/757,054

Please replace the line 19 on page 1 with the following rewritten line:

B2

H&H

Hamburger & Hamilton staging system

Please replace the paragraph beginning at page 10, line 1, with the following rewritten paragraph:

B3

Avian embryos from which cells are obtained for carrying out the present invention are preferably in a stage after the formation of the primitive streak and are preferably in a stage prior to sexual differentiation. Avian embryos from which cells are obtained for carrying out the present invention are preferably after stage 14, more preferably stage 14 to stage 45, even more preferably stage 15 to stage 31, including stages 17, 18, 19, 20 and 21, and most preferably in stage 27 to 30 of development on the Hamburger & Hamilton (H&H) staging system.

IN THE CLAIMS:

Please amend claims 49-52 as follows:

49. (Once Amended) The sustained culture of claim 47 wherein the avian gonadal cells are isolated from an avian embryo later than stage 14 (H&H).

50. (Once Amended) The sustained culture of claim 48 wherein the avian genital ridge cells are isolated from an embryo later than stage 14 (H&H).

51. (Once Amended) The sustained culture of claim 44 wherein the conditioned media is Buffalo Rat Liver (BRL) conditioned media.

B4

See C1

52. (Once Amended) The sustained culture of claim 44 wherein the condition media comprises a supplemental growth factor selected from the group consisting of leukemia inhibitory factor (LIF), insulin-like growth factor (IGF), fibroblast growth factor (FGF), basic fibroblast growth factor (bFGF), stromal cell factor (SCF), steel factor (SF), transforming growth factor- β 1 (TGF- β 1), and anti-retinoic acid.

IN THE ABSTRACT:

Please replace the Abstract with the following rewritten Abstract:

B5

A method of producing undifferentiated avian cells expressing an embryonic stem cell phenotype. The method includes the steps of collecting avian gonadal cells including primordial germ cells from an avian embryo after the formation of the primitive streak; depositing the avian gonadal cells in contact with a preconditioned feeder matrix; and growing the avian gonadal cells on the pre-conditioned feeder matrix in the presence of media for a time sufficient to